

# Dynamic Fees By Volume UniswapV4 Hook

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The second hook from our [Hook POC Uniswap Foundation grant](#) adjusts the swapping fees based on the trading volume. In our concept, we use volume as a proxy for volatility

. Market volatility has a major impact on the liquidity providers' profitability, often leading to frequent position rebalancing and realizing (im)permanent loss. With this design, we aim to improve LP profitability by capturing more value during volatile periods and distributing it back to them.

If you are interested in building your own hooks, we recommend reading the

[V4 documentation

](<https://docs.uniswapfoundation.org/>) for a general introduction to UniswapV4 and hooks. This article has been written in cooperation with Atis, who

[researched various dynamic fee approaches.

](<https://medium.com/r?url=https%3A%2F%2Fatis.medium.com%2Fdynamic-fees-for-automated-market-makers-liquidity-volatility-and-collected-fees-db211da18d0d>)

**hooks-poc/src/VolumeFee.sol at main · BrokkrFinance/hooks-poc**

**UniswapV4 PoC hooks. Contribute to BrokkrFinance/hooks-poc development by creating an account on GitHub.**

github.com